

This listing of claims replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Currently Amended) A method for transmitting ~~data packets~~ information over a time division multiple access data link when the link is subject to an interference ~~intermittent bursts of interference that are short in duration relative to the duration of a data frame~~, the method comprising the steps of:

transmitting ~~data packets~~ the information within a first assigned time slot on the wireless data link;

~~detecting the presence of the intermittent bursts of interference;~~

assigning a second time slot upon which ~~data packets are a~~ redundant copy of the information is to be transmitted, ~~where~~ wherein the second time slot is spaced in time from the first assigned time slot by a duration greater ~~than the~~ than a typical duration of an interference burst; and

transmitting ~~each data packet~~ the redundant copy of the information within the second time slot.

2. (Currently Amended) A method for transmitting data packets over a time division multiple access data link when the link is subject to ~~periodic bursts of an~~ interference that are short in duration relative to the duration of a data frame, the method comprising the steps of:

~~detecting the presence of the periodic bursts of~~ the interference;

assigning a first time slot and a second time slot upon which data packets can be transmitted, ~~where~~ wherein the second time slot is spaced in time from the first time slot by a duration greater ~~than the~~ than a typical duration of an of a period burst of the interference burst;

~~determining when a periodic burst will appear on either the first or the second time slot during each data link frame;~~

~~selecting either the first or second time slot for transmission of a data packet such that an interference burst does not occur during the selected time slot;~~

~~transmitting the data packets on the selected first time slot.~~ slot; and

transmitting a redundant copy of the data packet on the second time slot.

3. (Currently Amended) The method of claim 2, ~~in which the step of~~ wherein detecting the presence of periodic bursts of the interference ~~is further comprised of the substeps of~~ further comprising:

~~observing the timing at which~~ data packets with errors are received; and

determining from the observed timing that received data packets with errors are periodically spaced in time.

4. (Currently Amended) The method of claim 2, in which the data packets are sent from a transmitter to a ~~receiver,~~ receiver and the receiver is powered by an AC power source, ~~and the step of detecting the presence of periodic bursts of~~ the interference ~~is further comprised of the substeps of~~ further comprising:

detecting ~~the~~ timing of the AC power source;
observing ~~the~~ phase of the AC power source at the time a data packet with an error is received by the receiver; and
receiving subsequent data packets with errors by the receiver when the phase of the AC power source is equal to the observed phase.

5. (Currently Amended) The method of ~~claim 1~~ claim 8, in which the step of detecting the presence of the ~~intermittent bursts of interference is further comprised of the substeps of~~ further comprising:

selecting ~~either one of~~ a first threshold value if ~~intermittent bursts of the~~ interference have been previously detected, ~~or~~ and a second threshold value if ~~intermittent bursts of the~~ interference have not been previously detected;
monitoring ~~the~~ error rate of ~~packets~~ information transmitted over the data link;
and
determining that the error rate has exceeded the selected threshold value.

6. (Currently Amended) The method of claim 2, in which the data packets are exchanged between a first transceiver and a second transceiver, ~~the step of selecting either the first or second time slot is further comprised of the substep of~~ further comprising transmitting from the first transceiver to the second transceiver an indication as to whether the second transceiver should communicate via the first time slot or the second time slot, and ~~the step of~~ transmitting the data packet on ~~the selected~~ a time slot is ~~performed~~ selected by the second transceiver.

7. (Currently Amended) A method for transmitting data packets over a time division multiple access data link when the link is subject to bursts of interference that occur periodically with a known period between bursts and are short in duration relative to the duration of a data frame, and where the data packets are transmitted in frames of duration that is a ~~multiple or fraction~~ multiple of fraction of the interference burst period, the method comprising the steps of:

detecting ~~the phase of the a~~ data frame phase with respect to the bursts of interference;

synchronizing the data frame phase to the bursts of interference ~~bursts~~, such that the bursts of interference ~~bursts~~ occur during a predetermined time slot in the data frame phase;

transmitting data packets in one time slot ~~during one or more time slots other than the slot during which the~~ bursts of interference ~~bursts occur. does not occur; and~~

transmitting a redundant copy of the data packet on another time slot during which the bursts of interference does not occur.

8. (New) The method of claim 1, wherein the information is a data packet and the redundant copy of the information is a redundant copy of the data packet.

9. (New) The method of claim 1, further comprising detecting presence of the interference before assigning the second time slot upon which the redundant copy of the information is to be transmitted.

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10. (New) The method of claim 1, wherein the interference is originated from a microwave oven.
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